

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1499311

Luminaire Tested: MAE-G-4-120-2LO-HI-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2LO-HI-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

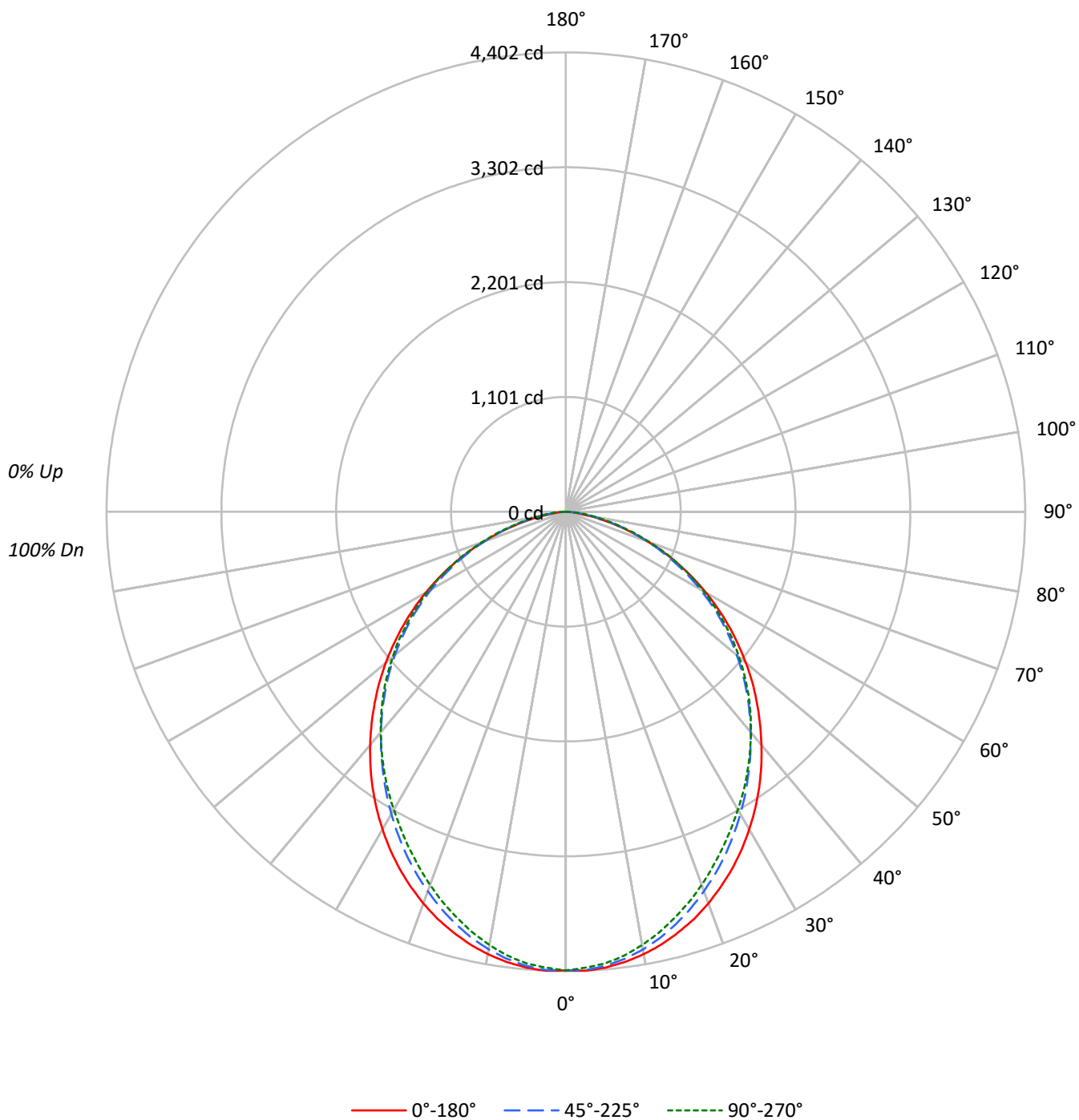
Lumens per Lamp: N/A
Luminaire Lumens: 10576.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5913	5913	5913
5°	5921	5899	5866
10°	5881	5819	5758
15°	5810	5693	5610
20°	5718	5540	5449
25°	5600	5374	5277
30°	5461	5195	5121
35°	5304	5014	4984
40°	5123	4841	4847
45°	4928	4666	4705
50°	4716	4480	4535
55°	4470	4265	4342
60°	4175	4003	4116
65°	3805	3671	3804
70°	3297	3257	3386
75°	2639	2729	2834
80°	1807	2032	2193
85°	954	1470	1942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4928 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.8	3.9
10°-20°	1151.4	10.9
20°-30°	1675.1	15.8
30°-40°	1933.2	18.3
40°-50°	1920.5	18.2
50°-60°	1648.6	15.6
60°-70°	1159.6	11.0
70°-80°	559.1	5.3
80°-90°	115.8	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3239.2	30.6
0°-40°	5172.4	48.9
0°-60°	8741.5	82.7
0°-90°	10576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4395	4395	4395	4395	4395	
5°	4384	4371	4368	4336	4344	416
15°	4171	4139	4087	4027	4027	1176
25°	3772	3715	3620	3556	3554	1736
35°	3229	3152	3052	3024	3034	2018
45°	2590	2517	2452	2458	2472	1998
55°	1906	1844	1818	1839	1851	1702
65°	1195	1156	1153	1180	1195	1182
75°	508	492	525	540	545	546
85°	62	72	95	116	126	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4394.6	4394.6	4394.6	4394.6	4394.6
2.5°	4402.4	4392.4	4394.6	4370.3	4372.4
5°	4383.8	4370.8	4367.5	4336.4	4343.5
7.5°	4350.4	4333.5	4321.2	4284.5	4290.0
10°	4304.3	4282.0	4258.8	4212.6	4214.8
12.5°	4244.8	4217.7	4181.0	4126.5	4129.4
15°	4171.1	4138.9	4087.1	4027.2	4027.4
17.5°	4089.4	4052.1	3983.3	3918.7	3923.1
20°	3993.6	3950.4	3869.2	3802.4	3805.5
22.5°	3886.8	3836.7	3750.2	3682.4	3681.0
25°	3772.2	3715.4	3620.0	3555.5	3554.5
27.5°	3648.3	3584.8	3484.5	3424.0	3426.0
30°	3515.0	3447.0	3344.0	3292.2	3296.4
32.5°	3374.7	3303.2	3201.4	3160.8	3170.0
35°	3228.9	3152.5	3052.4	3023.9	3034.3
37.5°	3076.6	3001.0	2905.1	2888.4	2898.9
40°	2916.8	2842.9	2756.1	2747.3	2759.7
42.5°	2755.0	2682.7	2605.7	2605.2	2618.7
45°	2590.1	2517.3	2452.3	2458.3	2472.5
47.5°	2424.8	2352.8	2298.9	2309.9	2322.9
50°	2253.0	2185.3	2140.4	2155.7	2166.6
52.5°	2077.0	2013.9	1980.5	1999.2	2016.3
55°	1905.5	1844.3	1818.1	1838.6	1851.0
57.5°	1728.2	1675.3	1655.3	1676.2	1690.1
60°	1551.5	1501.7	1487.5	1513.0	1529.4
62.5°	1372.8	1327.1	1321.1	1348.3	1363.1
65°	1195.3	1155.5	1153.2	1180.1	1194.9
67.5°	1018.6	983.2	990.1	1021.9	1030.6
70°	838.1	809.4	827.9	854.3	860.6
72.5°	669.9	645.6	671.9	693.7	696.9
75°	507.6	491.7	524.9	539.7	545.1
77.5°	359.8	356.0	384.1	399.0	405.5
80°	233.2	240.4	262.2	279.7	283.0
82.5°	132.7	142.7	163.4	189.0	199.0
85°	61.8	72.5	95.2	116.4	125.8
87.5°	20.7	28.6	40.3	44.1	42.1
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.10	18.69	17.47	19.00	19.32	17.08	18.67	17.45	18.98	19.30
	3H	18.58	20.01	18.96	20.34	20.70	18.65	20.08	19.03	20.40	20.76
	4H	19.02	20.36	19.42	20.71	21.08	19.14	20.48	19.54	20.83	21.21
	6H	19.24	20.47	19.65	20.84	21.23	19.43	20.67	19.85	21.04	21.43
	8H	19.27	20.45	19.69	20.84	21.24	19.51	20.69	19.94	21.08	21.48
	12H	19.27	20.40	19.70	20.78	21.21	19.57	20.70	20.00	21.08	21.51
4H	2H	17.63	18.97	18.03	19.32	19.70	17.62	18.95	18.01	19.30	19.68
	3H	19.29	20.41	19.70	20.81	21.21	19.38	20.49	19.79	20.89	21.29
	4H	19.82	20.82	20.25	21.23	21.67	19.97	20.98	20.41	21.39	21.83
	6H	20.12	20.99	20.57	21.43	21.89	20.36	21.23	20.82	21.68	22.13
	8H	20.17	20.98	20.63	21.43	21.89	20.47	21.29	20.93	21.73	22.20
	12H	20.18	20.91	20.66	21.39	21.86	20.56	21.29	21.04	21.76	22.23
8H	4H	20.02	20.84	20.48	21.28	21.75	20.16	20.98	20.63	21.42	21.89
	6H	20.38	21.06	20.88	21.55	22.03	20.63	21.30	21.12	21.79	22.27
	8H	20.46	21.07	20.98	21.58	22.06	20.78	21.39	21.30	21.90	22.38
	12H	20.51	21.04	21.02	21.53	22.10	20.92	21.46	21.43	21.95	22.51
12H	4H	20.03	20.76	20.51	21.24	21.71	20.16	20.90	20.65	21.37	21.84
	6H	20.40	21.00	20.91	21.51	22.00	20.63	21.24	21.14	21.74	22.23
	8H	20.52	21.05	21.02	21.54	22.10	20.83	21.36	21.34	21.85	22.42